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Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (currently amended) - A ligand specific for human epithelial cancer cells, wherein said ligand has the chemical structure of ~~cX₃GX₄GX₅X₆c~~ cXGXGX₃X₄c, in which "c" is D-cysteine; ~~"X₃", "X₄", "X₅", and "X₆"~~ "X" is an amino acid selected from the group consisting of L-amino acids, D-amino acids, and unnatural amino acids; and "G" is glycine; and further, wherein "X₃" is either polar and neutral or polar and acidic, and wherein "X₄" is hydrophobic.

2. (original) - The ligand of claim 1, wherein said epithelial cells are ovarian cancer cells.

3. (currently amended) - A ligand specific for human non-epithelial cancer cells, wherein said ligand has the chemical structure of ~~cX₂GX₄GX₅X₆c~~, in which "c" is D-cysteine; ~~"X₂", "X₄", "X₅", and "X₆"~~ are amino acids selected from the group consisting of L-amino acids, D-amino acids, and unnatural amino acids; and "G" is glycine; and further, wherein "X₂" is either polar and neutral or polar and acidic, and wherein "X₄" is hydrophobic "G" is glycine; "X₂" is an amino acid selected from the group consisting of D, d, N, n, S, Q, q, T, HoSer, Cit, E, e, HoCit, Hyp, Aad, Lys(Ac), A, 4-Pal, D-3-Pal, Pra, D-Pra, Y, Aib, M, Phe(4-CN), Tyr(3-NO₂), Tyr(Me), Phe(4-NO₂), Bug, Ach, Tyr(3,5-I), Aic, Phe(3-Cl), Chg, Bta, Bpa, Phe(3,4-Cl), Hyp(Bzl), and Cha; and "X₄", "X₅" and "X₆" are amino acids selected from the group consisting of N, S, Q, T, HoSer, Cit, HoCit, Hyp, H, A, Pal, D-3-Pal, Pra, R, Y, Aib, Abu, P, M, V, Nva, Tyr(3-NO₂), W, Phg, Phe(4-NO₂), Bug, I, Ach, L, Nle, Phe(4-Me), Aic, Phe(3-Cl), HoPhe, Chg, Bta, Bpa, 2-Nal, 1-Nal, Phe(3,4-Cl), Hyp(Bzl), and Cha.

4. (original) - The ligand of claim 3, wherein said non-epithelial cells are brain cancer cells.

5. (canceled)

6. (canceled)

7. (canceled)
8. (canceled)
9. (canceled)
10. (new) - The ligand of claim 1, wherein said ligand has the chemical structure of cDGLGDDc.
11. (new) - A ligand specific for human epithelial cancer cells, wherein said ligand has the chemical structure of cX₂GX₄GX₆X₇c, in which "c" is D-cysteine, "G" is glycine; "X₂" is an amino acid selected from the group consisting of D,d,N, n, S,Q,q,T, HoSer, Cit, E, e, HoCit, Hyp, Aad, Lys(Ac), A, 4-Pal, D-3-Pal, Pra, D-Pra, Y, Aib, M, Phe(4-CN), Tyr(3-NO₂), Tyr(Me), Phe(4-NO₂), Bug, Ach, Tyr(3,5-I), Aic, Phe(3-Cl), Chg, Bta, Bpa, Phe(3,4-Cl), Hyp(Bzl), and Cha; and "X₄", "X₆" and "X₇" are amino acids selected from the group consisting of N, S, Q, T, HoSer, Cit, HoCit, Hyp, H, A, Pal, D-3-Pal, Pra, R, Y, Aib, Abu, P, M, V, Nva, Tyr(3-NO₂), W, Phg, Phe(4-NO₂), Bug, I, Ach, L, Nle, Phe(4-Me), Aic, Phe(3-Cl), HoPhe, Chg, Bta, Bpa, 2-Nal, 1-Nal, Phe(3,4-Cl), Hyp(Bzl), and Cha.
12. (new) - The ligand of claim 11, wherein said ligand has the chemical structure of c-d-G-HoCit-G-P-Q-c.
13. (new) - The ligand of claim 3, wherein said ligand has the chemical structure of cDGLGDDc.
14. (new) - The ligand of claim 3, wherein said ligand has the chemical structure of cDGWGPNC.